

# Justin Siu

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## EDUCATION

<b>City University of Hong Kong</b> <i>BEng, Electrical Engineering, Major in Computer and Data Engineering</i>	<b>June 2026</b> <i>Hong Kong</i>
<ul style="list-style-type: none"><li>Teaching helper in a cryptography and blockchain course that is offered to local gifted education students.</li><li>Dean's List - 2025 1<sup>st</sup> Semester.</li><li>Final Year Project Student at CALAS</li></ul>	

  

<b>Czech Technical University in Prague</b> <i>Student Exchange</i>	<b>Feb. 2025 – Jun. 2025</b> <i>Czech Republic</i>
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## WORK EXPERIENCE

<b>Alphotonics</b> <i>Design Engineer Intern - Robotics and STEM Product Development</i>	<b>Feb. 2023 – Aug. 2023</b> <i>Hong Kong</i>
<ul style="list-style-type: none"><li>As a Design Engineer, my primary focus is on creating innovative and functional solutions through the application of engineering principles and design techniques.<ul style="list-style-type: none"><li>Contributed to the <b>development of STEM product kits</b>, including a <b>robotic car and robotic arm incorporating AI and computer vision</b>.</li><li><b>Designed a self-automated robotic arm</b> by integrating AI and computer vision <b>individually</b>.</li><li>Proficient in <b>Blender3D</b> for creating accurate 3D models, 3D animations and 3D printing.</li><li>Knowledgeable in <b>engineering principles, materials selection, and manufacturing processes</b>.</li><li>Collaborated with different parties to execute projects.</li></ul></li><li>Also involved in <b>teaching local secondary school's students</b> and <b>designing the related course materials</b> and manuals for all users.</li><li><b>Familiar with IoT devices</b> including Arduino, Bluetooth Low Energy (BLE), different sensors.</li></ul>	
<b>AHKPCM</b> <i>IT Consultant / Librarian</i>	<b>Jul. 2021 – Jun. 2024</b> <i>Hong Kong</i>
<ul style="list-style-type: none"><li>Maintaining all technical equipments in the organization.<ul style="list-style-type: none"><li>Network Configuration</li><li>Computer Maintenance</li><li>Hardware Maintenance (incl. AV system, Projectors)</li><li>Software Deployment</li></ul></li><li>Construction and maintenance of the library web application for members.</li></ul>	
<b>China Mobile Hong Kong Company Limited</b> <i>Intern (Product Centre – Cloud Product)</i>	<b>Jun. 2024 – Dec. 2024</b> <i>Hong Kong</i>
<ul style="list-style-type: none"><li>Delivering education products</li><li>Providing feedback and improving current products</li></ul>	
<b>China Mobile Hong Kong Company Limited</b> <i>Intern (Product Centre – Cloud Product)</i>	<b>Jul. 2025 – Present</b> <i>Hong Kong</i>

## CERTIFICATIONS, SKILLS & INTERESTS

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### ▪ Publications:

- Sum, K. C., Ng, K.-H., **Siu, S.-T.**, Chui, H.-Y., Au, C.-L., & Li, C. F.. AI Assisted Microcontroller Based Kits For STEM Education. 2024 IEEE Integrated STEM Education Conference (ISEC).
- Kam C. Sum, Gabriel K. Wong, **Siu-Ting Siu**, Ho-Yin Chui, Cheuk-Lut Au , & Chiu F. Li. AI Machine Vision Based Robotic Arm For Pre-University Education. 2025 IEEE Integrated STEM Education Conference (ISEC).

### ▪ Certifications:

- 98-381: MTA: Introduction to Programming using Python, 29 Oct 2020

### ▪ Skills: Programming in **Python, Java and C++**; Web development using bootstrap; 3D modelling and animation using **Blender3D**; **Arduino**; Network infrastructure; Computer hardware debugging; Photography; **SageMath**

### IELTS

*IELTS Academic*

1<sup>st</sup> June 2024

Reading: 8.0; Listening: 8.5; Writing: 6.5; Speaking: 6.5; Overall: 7.5

### ▪ Awards:

- 2019 Genius Olympiad Silver Award – Smart Baby Stroller, representing Hong Kong
- Hong Kong Student Science Project Competition 2019 - Energy, Engineering and Environment Award – Smart Baby Stroller
- Hong Kong Student Science Project Competition 2019 – Honorable Mention – Smart Baby Stroller
- 2025 IEEE ISEC - (**Best Paper Award** – Work in Progress Papers) – 1<sup>ST</sup> Place

### ▪ Interests: Creating new products using computer vision and AI; Developing on IoT platform including Arduino and Raspberry Pi; Photography; Surfing; Computer Hardware



Personal Website



Github